

REMARKS

In accordance with the foregoing, claims 1-6 have been amended and a Substitute Abstract has been provided. Claims 1-8 are pending and under consideration.

Claims 1-8 are rejected under 35 USC §112, both first and second paragraphs. Both of these rejections relate to the claim terminology "electron array." The Examiner appears to be confused as to whether there is an array which is inverted or a population which is inverted. Independent claim 1 has been amended to recite that the population density of two electronic states may be inverted by electronic excitation. That is, the term "electron array" has been replaced with "an electron configuration with a population density of two electronic states." The meaning of this new terminology is clearly disclosed in the application.

The Examiner further questions what is meant by "elastic dispersion." As described in the application, a material having elastic dispersion scatters part of light elastically, which means that the wavelength of the scattered light corresponds to the wavelength of the irradiation light.

In the rejection under 35 USC §112, first paragraph, the Examiner asserts that the specification does not enable one of ordinary skill in the art to make and use the invention. The Examiner's position is respectfully traversed. Based on the application, one of ordinary skill in the art would know that light is produced with the propagation component in the direction in which the light guide can guide the light. This component is amplified by

stimulated emission of a proper material within the guide. Therefore, one of ordinary skill in the art would be able to make and use the claimed invention.

In view of the foregoing, it is submitted that the claims are sufficiently definite and the disclosure is sufficiently enabling, respectively. Accordingly, the rejections under 35 USC §112, first and second paragraphs should be withdrawn. There being no further outstanding objections or rejections, it is submitted that the application is in condition for allowance. An early action to that effect is courteously solicited.

If there are any formal matters remaining after this response, the Examiner is requested to telephone the undersigned to attend to these matters.

If there are any additional fees associated with filing of this Amendment, please charge the same to our Deposit Account No. 19-3935.

Respectfully submitted,

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